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Dated: 1-20-04

Signature: Marian L. Christopher

(Marian L. Christopher)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Walter Callen et al.

Art Unit : 1631

Serial No. : 10/034,621

Examiner : Richard Hutson, Ph.D.

Filed : December 21, 2001

Title : ENZYMES HAVING HIGH TEMPERATURE POLYMERASE ACTIVITY AND METHODS OF USE THEREOF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RESPONSE AND AMENDMENT

Responsive to the non-final Office Action mailed August 20, 2003, Applicants respectfully request entry of the amendments and consideration of the remarks set forth herein. The response was due November 20, 2003. Applicants herein submit a petition for a two month extension of time to January 20, 2004. Accordingly, this Response is timely filed.

Amendments to the specification are on page 2 of this paper.

Amendments to the claims are reflected in the listing of claims which begin on page 6 of this paper.

Remarks begin on page 12 of this paper.

The following documents are also enclosed herewith:

- Transmittal, Petition to Extend Time
- Exhibits A (USPTO written description guidelines) and B (recently issued claims); (Exhibits A and B to be submitted with supplemental response)
- Rule 132 declaration by Dr. Jay Short, and resume; (Resume to be submitted with supplemental response)
- Terminal disclaimer under 37 CFR §§3.73(b) and 1.321(b).
- Postcard;